

29. (amended) A cellular X-ray grid for use in an X-ray imaging system with a radiation point source and an X-ray film, comprising:

a grid, including a main part surrounded by a [monolithic solid] frame having a height corresponding to the height of the main part and a width selected to prevent bending of said grid and having at least one longitudinally-extending side, and a layer of radiation absorbent material completely covering and overlying all surfaces of said grid including said main part [of] and frame, said main part including a top face and a bottom face, and a multiplicity of throughbores formed therethrough extending from said top face to said bottom face and defining cells to pass radiation emitted by said point source through said main part to form an X-ray image on an X-ray film underlying said grid, said cells are separated by a plurality of x-ray absorbing partitions, said cells each [being a quadrilateral in cross-section and] having [a] diagonals disposed at such a predetermined [oblique] angle not parallel or perpendicular to said longitudinally-extending side of said main part so as to eliminate shadow images of the cells on an X-ray image on the film during exposure thereof [to] from the radiation point source [during] with movement of said grid in a predetermined rectilinear direction, with said longitudinally-extending side of said main part being oriented parallel to said direction of movement.


45. (new) A cellular X-ray grid comprising a main part having a top surface and a bottom surface and a peripheral surface and provided with a plurality of X-ray transmissive cells filled with gas or vacuum, said cells extending through said main part from one of said end surfaces to another of said end surfaces and separated by a plurality of X-ray absorbing partitions each having side surfaces facing a respective one of said cells and also each having two opposite end surfaces, an x-ray absorbing layer completely covering all surfaces of said grid including partitions, said grid has at least one longitudinally-extended side, said cells having diagonals disposed at such a predetermined angle not parallel or perpendicular to said longitudinally-extending side of said main part so as to eliminate shadow images of the cells on an x-ray image on the x-ray film during exposure thereof from the radiation point source with movement of said grid in a predetermined rectilinear direction, with said longitudinally-extending side of said main part being oriented parallel to said direction of movement

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Applicant submits that the claims are in a condition for allowance and respectfully requests that same. Applicant's attorney would welcome a telephone interview with the Examiner if he believes that would expedite prosecution of the application.

Respectfully submitted,
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